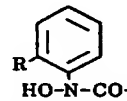
94-102435/13 A60 C03 D22 E14 G06 H07 (C02 D17 D18 D21 E13) BADI 92.09.21

BASF AG *DE 4231518-A1

92.09.21 92DE-4231518 *(94.03.24)* C07D 213/82, A01N 37/28, 43/16, 43/32, C07D 277/56, 309/28, 333/38, 327/06, 307/68, 231/14, A01N 43/40, C07C 259/10

N-Hydroxy-N-phenyl-carboxylic acid amide derivs. - for use as microbicides, esp. fungicides, and are partic. effective against Botrytis C94-047259

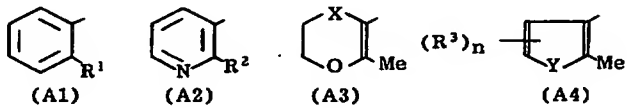
N-hydroxy-N-phenyl carboxylic acid amide derivs. of formula (I) are new:



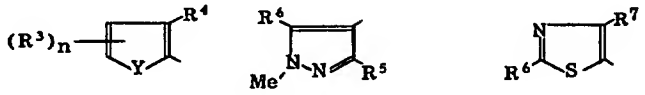
(I)

R = 2-12C alkyl, 2-12 C alkoxy, 3-12C alkenyl, 3-12C alkenyloxy, 3-6C alkynyl, 3-6C alkynyloxy (all opt. partially or completely halogenated), 3-7C cycloalkyl, 4-7C cycloalkenyl, 3-7C cycloalkyloxy or 4-7C cycloalkenyloxy (each of these rings opt. mono-, di, or tri substd. by 1-4C alkyl), Ph (opt. mono- to penta- substd. by halogen and/or opt. mono-, di- or tri-substd. by 1-4C alkyl, 1-4C haloalkyl, 1-4C alkoxy, 1-4C haloalkoxy, 1-4C alkylthio or 1-4C haloalkylthio);

A = a cyclic gp. of formula (A1) to (A7):



(A1) (A2) (A3) (A4)



(A5) (A6) (A7)

A(8-M2) C(7-H1, 10-A12C, 14-A1, 14-A1B4, 14-A4) D(6-H1, 7-B, 9-A1C) E(7-A1, 7-B1, 7-B2, 7-C, 7-D4B, 7-D8, 7-F1, 10-A18A) G(3-A) H(7-G)

DE4231518-A+

X = CH_2, S, SO or SO_2;
Y = O or S;
R^1, R^2, R^4, R^5 and R^7 = halogen, 1-4C alkyl or 1-4C haloalkyl;
R^3, R^6 = H, halogen or 1-4C alkyl;
n = 1-2.

USE

(I) are fungicides for control of harmful fungi, esp. of Botrytis. They can be used to protect materials, e.g. glues, starch solns, leather, lubricants, etc. or plants from attack by bacteria or fungi. (I) are effective against e.g. Staphylococcus aureus, Escherichia coli, Saccheromyces cerevisciae, Candida alticans, etc.

PREPARATION

(I)

EXAMPLE

14 ml water and 19.6g soldium hydrogen carbonate were added at 0°C to a soln. of 15.1g 2-n-propyl phenyl hydroxylamine in 75 ml ether-petroleum ether mixt. (2:1); followed by dropwise addn. of 13.6g 2-chloronicotinic acid chloride with intensive mixing. After stirring the mixt. overnight at room temp., the residue was filtered off and worked up to give 14.6g amide prod. which was recrystd. from OH to give 12.5g 2-chloronicotinic acid-N-hydroxy-2-n-propylanilide of m.pt. 134-135°C. (26pp1401OBDwgNo0/0).

Addnl. Data: EICKEN K, AMMERMANN E, LORENZ G

DE4231518-A

N-hydroxy-N-phenylcarboxamides, processes for their production and agents containing them for the controlling of harmful fungi.

Publication number: DE4231518

Publication date: 1994-03-24

Inventor: EICKEN KARL DR (DE); AMMERMANN EBERHARD DR (DE); LORENZ GISELA DR (DE)

Applicant: BASF AG (DE)

Classification:

- international: ***A01N37/22; A01N43/40; A01N43/78; C07C259/10; C07D213/82; C07D231/14; C07D277/28; C07D277/56; C07D307/68; C07D309/22; C07D309/28; C07D327/06; C07D333/38;*** **A01N37/22; A01N43/34; A01N43/72; C07C259/00; C07D213/00; C07D231/00; C07D277/00; C07D307/00; C07D309/00; C07D327/00; C07D333/00;** (IPC1-7): C08K5/20; C08L3/02; C08L89/00; C08L91/06; C09D5/14; C09G1/08; C09H5/00; C09J11/06; C09K3/10; C09K7/02; C10L1/00; C10M133/16; C10M133/38; C10M135/32; C14C1/00; C14C9/00; D06M13/402; D21F1/66; C07D213/82; A01N37/28; A01N43/16; A01N43/32; A01N43/40; C07C259/10; C07D231/14; C07D277/56; C07D307/68; C07D309/28; C07D327/06; C07D333/38; C08K5/20; C08K5/34; C08K5/47

- european: A01N43/40; A01N43/78; C07D213/82G; C07D231/14; C07D277/56; C07D307/68; C07D309/28; C07D327/06; C07D333/38

Application number: DE19924231518 19920921

Priority number(s): DE19924231518 19920921

Also published as:

EP0591699 (A1)

JP6211769 (A)

Abstract not available for DE4231518

Abstract of corresponding document: **EP0591699**

1. N-hydroxy-N-phenylcarboxamides of the formula I in which the substituents have the following meaning: R is optionally substituted alkyl, alkoxy, alkenyl, alkenyloxy, alkinyl, alkinyloxy, cycloalkyl, cycloalkenyl, cycloalkyloxy, cycloalkenyloxy or phenyl; A is one of the radicals A1 to A7 where X is -CH2-, -S-, -SO- or -SO2-; Y is -O- or -S-; R<1>, R<2>, R<4>, R<5> and R<7> are halogen, alkyl or haloalkyl; R<3> and R<6> are hydrogen, halogen or alkyl; n is 1 or 2; their preparation, agents containing them, and their use for controlling harmful fungi.
